

	L #	Search Text	DBs	Time Stamp	Hits
1	L1	sun-microsystems.asn.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/06/10 21:36	35
2	L2	jong.in. and eduard.in.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/06/10 21:36	151
3	L3	levy.in. and moshe.in.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/06/10 21:36	78

	L #	Search Text	DBs	Time Stamp	Hits
4	L4	leung.in. and albert.in.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/06/10 21:37	80
5	L5	L1 and L2 and L3 and 4	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/06/10 21:37	0
6	L6	713/155.ccls.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/06/10 21:37	823

	L #	Search Text	DBs	Time Stamp	Hits
7	L7	713/155.ccls. and "logon credential" and "authentication"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/06/10 21:38	1
8	L8	713/186.ccls. and "logon credential" and "authentication"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/06/10 21:38	4
9	L9	726/5.ccls. and "logon credential" and "authentication"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/06/10 21:38	2

	L #	Search Text	DBs	Time Stamp	Hits
10	L10	726/20.ccls. and "logon credential" and "authentication"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TD B	2007/06/10 21:38	0
11	L11	"logon credential" and "authentication" and "enroll"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TD B	2007/06/10 21:38	12
12	L12	"privacy protection" same "data communications network"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TD B	2007/06/10 21:38	16

	L #	Search Text	DBs	Time Stamp	Hits
13	L13	L11 and L12	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/06/10 21:39	7
14	L14	L13 and "user-controlled" near "storage"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/06/10 21:39	7
15	L15	"user-controlled" near "storage" and "authority network site"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/06/10 21:40	7

	L #	Search Text	DBs	Time Stamp	Hits
16	L16	L14 and L15	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/06/10 21:40	7
17	L17	("web server" or "cell phone" or "smart card" or "PDA") near (credential) near (certificate authority)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/06/10 21:42	2
18	L18	("web server" or "cell phone" or "smart card" or "PDA") near (credential) near (service provider)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/06/10 21:41	1

	L #	Search Text	DBs	Time Stamp	Hits
19	L19	(enroll\$3) near (user) with ("network site")	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/06/10 21:42	8
20	L20	("web server" or "cell phone" or "smart card" or "PDA") near (credential)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/06/10 21:42	75
21	L21	L19 and L20	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/06/10 21:42	0

	L #	Search Text	DBs	Time Stamp	Hits
22	L22	("web server" or "cell phone" or "smart card" or "PDA") near (credential) and "login"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/06/10 21:42	32

Interference Search

	L #	Search Text	DBs	Time Stamp	Hits
23	L23	logon AND credential AND authentication AND enroll AND identification AND data AND communications AND network.CLM.	US-PGPUB	2007/06/10 21:46	24
24	L24	logon AND credential AND authentication AND enroll AND identification AND data AND communications AND network AND portable AND user-controlled AND secure AND storage.CLM.	US-PGPUB	2007/06/10 21:46	6
25	L25	logon AND credential AND authentication AND enroll AND identification AND data AND communications AND network AND portable AND user-controlled AND secure AND storage AND enroll AND user AND authority.CLM.	US-PGPUB	2007/06/10 21:47	3
26	L26	logon AND credential AND authentication AND enroll AND identification AND data AND communications AND network AND portable AND user-controlled AND secure AND storage AND enroll AND user AND authority AND service AND provider.CLM.	US-PGPUB	2007/06/10 21:47	3
27	L27	identity AND credential AND request AND data AND federated AND identity AND server.CLM.	US-PGPUB	2007/06/10 21:47	75
28	L28	identity AND credential AND request AND data AND federated AND identity AND server AND randomized AND ID.CLM.	US-PGPUB	2007/06/10 21:48	5
29	L29	identity AND credential AND request AND data AND federated AND identity AND server AND randomized AND ID AND logon AND service AND portal.CLM.	US-PGPUB	2007/06/10 21:48	1

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	L #	Search Text	DBs	Time Stamp	Hits
30	L30	identity AND credential AND request AND data AND federated AND identity AND server AND randomized AND ID AND logon AND service AND portal AND truthfulness AND accuracy AND completeness AND data AND stored.CLM.	US- PGPUB	2007/06/10 21:49	3

	Comments
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identification, credential, login, enroll, user, service provider, world wide web

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Identification and privacy in the World Wide Web - Patent 20030084172

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Relevance scale **1 Role-based access control on the web**

 Joon S. Park, Ravi Sandhu, Gail-Joon Ahn

February 2001 **ACM Transactions on Information and System Security (TISSEC)**, Volume 4 Issue 1

Publisher: ACM Press

Full text available:  pdf(331.03 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Current approaches to access control on the Web servers do not scale to enterprise-wide systems because they are mostly based on individual user identities. Hence we were motivated by the need to manage and enforce the strong and efficient RBAC access control technology in large-scale Web environments. To satisfy this requirement, we identify two different architectures for RBAC on the Web, called user-pull and server-pull. To demonstrate feasibility, we im ...

Keywords: WWW security, cookies, digital certificates, role-based access control

2 DIM frameworks: Privacy enhancing identity management: protection against re-identification and profiling

 Sebastian Clauß, Dogan Kesdogan, Tobias Kölisch

November 2005 **Proceedings of the 2005 workshop on Digital identity management DIM '05**

Publisher: ACM Press

Full text available:  pdf(272.86 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

User centric identity management will be necessary to protect user's privacy in an electronic society. However, designing such systems is a complex task, as the expectations of the different parties involved in electronic transactions have to be met. In this work we give an overview on the actual situation in user centric identity management and point out problems encountered there. Especially we present the current state of research and mechanisms useful to protect the user's privacy. Additiona ...

Keywords: identity management, privacy

3 Implementing role based access control for federated information systems on the web

Kerry Taylor, James Murty

January 2003 **Proceedings of the Australasian information security workshop conference on ACSW frontiers 2003 - Volume 21 ACSW Frontiers '03**

Publisher: Australian Computer Society, Inc.

Full text available:  pdf(217.89 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

There is rapidly increasing interest in Australia in on-line sharing of information stored in corporate databases, especially within and between staff of independent government agencies. Biological collections databases and population health GIS are good examples of the frequent situation where database custodians are looking for dynamic, distributed, heterogenous federated information system models for information sharing within loosely constituted communities. This paper describes a security m ...

Keywords: RBAC, federated databases

4 Separating key management from file system security

 David Mazières, Michael Kaminsky, M. Frans Kaashoek, Emmett Witchel

December 1999 **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth ACM symposium on Operating systems principles SOSP '99**, Volume 33 Issue 5

Publisher: ACM Press

Full text available:  pdf(1.77 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

No secure network file system has ever grown to span the Internet. Existing systems all lack adequate key management for security at a global scale. Given the diversity of the Internet, any particular mechanism a file system employs to manage keys will fail to support many types of use. We propose separating key management from file system security, letting the world share a single global file system no matter how individuals manage keys. We present SFS, a secure file system that avoids internal ...

5 Applications and system issues: Securing user inputs for the web

 Jan Camenisch, abhi shelat, Dieter Sommer, Roger Zimmermann

November 2006 **Proceedings of the second ACM workshop on Digital identity management DIM '06**

Publisher: ACM Press

Full text available:  pdf(655.02 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The goal of this paper is to study *secure and usable* methods for providing user input to a website. Three principles define security for us: certification, awareness, and privacy. Four principles define usability: contextual awareness, semantic awareness, prodigious use of screen space, and the availability of recommended choices. We first describe how current approaches to the solicitation of user input on the web fail on both fronts: they either can not handle certified data, do not resp ...

Keywords: user interface designs

6 HTTP Cookies: Standards, privacy, and politics

 David M. Kristol

November 2001 **ACM Transactions on Internet Technology (TOIT)**, Volume 1 Issue 2

Publisher: ACM Press

Full text available:  pdf(390.38 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

How did we get from a world where cookies were something you ate and where

"nontechies" were unaware of "Netscape cookies" to a world where cookies are a hot-button privacy issue for many computer users? This article describes how HTTP "cookies" work and how Netscape's original specification evolved into an IETF Proposed Standard. I also offer a personal perspective on how what began as a straightforward technical specification turned into a political flashpoint when it tried to address nontechn ...

Keywords: Cookies, HTTP, World Wide Web, privacy, state management

7 Protecting information on the Web

 Elisa Bertino, Elena Pagani, Gian Paolo Rossi, Pierangela Samarati
November 2000 **Communications of the ACM**

Publisher: ACM Press

Full text available:  pdf(461.10 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



8 Dynamic Access Control: An access control model for dynamic client-side content

 Adam Hess, Kent E. Seamons
June 2003 **Proceedings of the eighth ACM symposium on Access control models and technologies SACMAT '03**

Publisher: ACM Press

Full text available:  pdf(608.50 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



The focus of access control in client/server environments is on protecting sensitive server resources by determining whether or not a client is authorized to access those resources. The set of resources are usually static, and an access control policy associated with each resource specifies who is authorized to access the resource. In this paper, we turn the traditional client/server access control model on its head, and address how to protect the sensitive content that clients disclose to serve ...

Keywords: access control, authentication, credentials, trust negotiation

9 From yellow stickies to the world-wide web: the evolution of problem tracking at the University of Houston

 Julia Kosatka, Anita Bhakta
October 2004 **Proceedings of the 32nd annual ACM SIGUCCS conference on User services SIGUCCS '04**

Publisher: ACM Press

Full text available:  pdf(223.77 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



In 1990, IT Technology Support Services (TSS) was formed by combining several IT support departments. Cases were distributed to the four or five support people by the simple expedient of putting sticky notes on their office doors. A support person would return from an office call to find his/her office door covered in sticky notes. Missing cases, lost phone numbers and angry customers were common events. With an enrollment of 30,000 students and rising, something had to give.

A variety ...

Keywords: RightNowTechnologies, burnout, collaboration, console, e-mail, fileMaker pro, helpdesk, notification system, remedy, self-service, tracking, web

10

Regulating service access and information release on the Web





Piero Bonatti, Pierangela Samarati

November 2000 **Proceedings of the 7th ACM conference on Computer and communications security CCS '00**

Publisher: ACM Press

Full text available: [pdf\(599.91 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: access control, digital certificate, privacy

- 11 DOS protection: Using graphic turing tests to counter automated DDoS attacks against web servers



William G. Morein, Angelos Stavrou, Debra L. Cook, Angelos D. Keromytis, Vishal Misra, Dan Rubenstein

October 2003 **Proceedings of the 10th ACM conference on Computer and communications security CCS '03**

Publisher: ACM Press

Full text available: [pdf\(256.83 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present WebSOS, a novel overlay-based architecture that provides guaranteed access to a web server that is targeted by a denial of service (DoS) attack. Our approach exploits two key characteristics of the web environment: its design around a human-centric interface, and the extensibility inherent in many browsers through downloadable "applets." We guarantee access to a web server for a large number of *previously unknown* users, without requiring pre-existing trust relationships between ...

Keywords: Java, graphic turing tests, web proxies

- 12 Identity Boxing: A New Technique for Consistent Global Identity

Douglas Thain

November 2005 **Proceedings of the 2005 ACM/IEEE conference on Supercomputing SC '05**

Publisher: IEEE Computer Society

Full text available: [pdf\(393.19 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Today, users of the grid may easily authenticate themselves to computing resources around the world using a public key security infrastructure. However, users are forced to employ a patchwork of local identities, each assigned by a different local authority. This forces each grid system to provide a mapping from global to local identities, creating a significant administrative burden and inhibiting many possibilities of data sharing. To remedy this, we introduce the technique of identity boxing. ...

- 13 Access control with IBM Tivoli access manager



Günter Karjoth

May 2003 **ACM Transactions on Information and System Security (TISSEC)**, Volume 6 Issue 2

Publisher: ACM Press

Full text available: [pdf\(367.07 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Web presence has become a key consideration for the majority of companies and other organizations. Besides being an essential information delivery tool, the Web is increasingly being regarded as an extension of the organization itself, directly integrated with its operating processes. As this transformation takes place, security grows in importance. IBM Tivoli Access Manager offers a shared infrastructure for authentication and access

management, technologies that have begun to emerge in the com ...

Keywords: Access control, WWW security, Web servers, authorization management

14 Towards dynamic data grid framework for eResearch

A. B. M. Russel, Asad I. Khan

January 2006 **Proceedings of the 2006 Australasian workshops on Grid computing and e-research - Volume 54 ACSW Frontiers '06**

Publisher: Australian Computer Society, Inc.

Full text available:  pdf(466.48 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The scale at which scientific data is produced will undergo a massive change in the near future. Many sophisticated scientific discovery laboratories or the installation of sensor networks would produce a large amount of data. Research in protein crystallography for instance can produce hundreds of Terabytes of data from a single crystallography beamline. These data have to be saved for future use and made available for collaborative use by researchers. There is a need to develop a framework whi ...

Keywords: CIMA, SRB, data grid, eResearch, gridFTP

15 General storage protection techniques: Securing distributed storage: challenges, techniques, and systems

 Vishal Kher, Yongdae Kim

November 2005 **Proceedings of the 2005 ACM workshop on Storage security and survivability StorageSS '05**

Publisher: ACM Press

Full text available:  pdf(294.61 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The rapid increase of sensitive data and the growing number of government regulations that require longterm data retention and protection have forced enterprises to pay serious attention to storage security. In this paper, we discuss important security issues related to storage and present a comprehensive survey of the security services provided by the existing storage systems. We cover a broad range of the storage security literature, present a critical review of the existing solutions, compare ...

Keywords: authorization, confidentiality, integrity, intrusion detection, privacy

16 Vision & challenges: A peer-to-peer approach to wireless LAN roaming

 Elias C. Efstathiou, George C. Polyzos

September 2003 **Proceedings of the 1st ACM international workshop on Wireless mobile applications and services on WLAN hotspots WMASH '03**

Publisher: ACM Press

Full text available:  pdf(279.70 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We make the case for a Global Confederation of Peer-to-Peer (P2P) Wireless Local Area Networks. A P2P Wireless Network Confederation (P2PWNC) is a community of administrative domains that offer wireless Internet access to each other's registered users. The ubiquitous Internet access that the roaming users of these domains could enjoy compensates for their home domain's cost of providing access to visitors. Existing roaming schemes utilize central authorities or bilateral contracts to control acc ...

Keywords: P2P, WISP, WLAN, Wi-Fi, incentives, mixes, privacy, roaming

17 B2B e-commerce and enterprise integration: Towards end-to-end privacy control in the outsourcing of marketing activities: a web service integration solution

 Patrick C. K. Hung, Dickson K. W. Chiu, W. W. Fung, William K. Cheung, Raymond Wong, Samuel P. M. Choi, Eleanna Kafeza, James Kwok, Jousha C. C. Pun, Vivying S. Y. Cheng
August 2005 **Proceedings of the 7th international conference on Electronic commerce ICEC '05**

Publisher: ACM Press

Full text available:  pdf(438.26 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

With the recent adoption of marketing activities outsourcing, there have been increasing demands and concerns for privacy control. The traditional approach of a bulk transmission of the customers' information to a marketing company cannot meet such demands, especially in the finance and healthcare businesses. Therefore, we propose a layered architecture and a development methodology for end-to-end privacy control over the export of each individual customer's records through a Web services platfo ...

Keywords: EPAL, OWL, SOAP, UDDI, WSDL, Web service integration, need-to-know principle, privacy policies

18 Ontologies and web services: Agents for e-business applications

 A. Negri, A. Poggi, M. Tomaiuolo, P. Turci
May 2006 **Proceedings of the fifth international joint conference on Autonomous agents and multiagent systems AAMAS '06**

Publisher: ACM Press

Full text available:  pdf(320.72 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Web services are increasingly utilized by organizations that want to improve responsiveness and efficiency. While they may be used in an isolated way, the need of integrating them as part of workflow processes is more and more felt. However the creation of applications composed of dynamically selected basic services entails facing two essential issues: how to efficiently discover Web services and how to allow and facilitate their composition. In this paper, we propose an agent-based framework rep ...

Keywords: agent-mediated e-business, ontology, security, service discovery and composition, web services, workflow

19 Mobile services and technology track: A conceptual approach to information security in financial account aggregation

 Manish Agrawal, Hemant Padmanabhan, Lokesh Pandey, H. R. Rao, Shambhu Upadhyaya
March 2004 **Proceedings of the 6th international conference on Electronic commerce ICEC '04**

Publisher: ACM Press

Full text available:  pdf(173.70 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

An important dimension of mobile computing is the ubiquitous and location-independent availability of data. Aggregation is the ability to electronically access and display personal account information from disparate sources through a single identity. The client financial data is assembled in an organized format providing meaningful summarization and analysis. The prevalent methods of aggregation pose issues in information security and assurance. Utilizing advances in Internet technology such as ...

Keywords: account service providers, aggregation, identity service providers, scraping

20 Requirements for scalable access control and security management architectures

 Angelos D. Keromytis, Jonathan M. Smith

May 2007 **ACM Transactions on Internet Technology (TOIT)**, Volume 7 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(365.56 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Maximizing local autonomy by delegating functionality to end nodes when possible (the end-to-end design principle) has led to a scalable Internet. Scalability and the capacity for distributed control have unfortunately not extended well to resource access-control policies and mechanisms. Yet management of security is becoming an increasingly challenging problem in no small part due to scaling up of measures such as number of users, protocols, applications, network elements, topological constr ...

Keywords: Large-scale systems, access control, authorization, credentials, delegation, distributed systems, security policy, trust management

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IET JNL IET Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IET CNF IET Conference Proceeding

IEEE STD IEEE Standard

- 1. **IEEE standard glossary of computer networking terminology**
30 June 1995

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- 2. **IEEE standards for local and metropolitan area networks: distributed que (DQDB) subnetwork of a metropolitan area network (MAN)**
3 July 1991

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- 4. **IEEE guide for the protection of network transformers**
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